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CRYPTOGRAPHIC KEY SYSTEM

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ABSTRACT

PROBLEM TO BE SOLVED: To provide a concrete structure for applying a cryptographic key system to a television system, a database system or an electronic commercial transaction system or the like.

SOLUTION: This system consists of a broadcasting station, a database, a receiving apparatus, a data communications apparatus and a user terminal. As a cryptographic key system, a secret-key system, a public-key system, and a digital signature system are used. The keys used in the system are either encrypted, or remain unencrypted to be supplied by broadcasting. The system is effective in preventing the unauthorized use of the database system, managing copyrights, and in pay-per-view systems and video-on-demand systems. Further, the system is effective in realizing an electronic market which uses an electronic data information system.

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